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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/622,490	07/21/2003	Ken-Ichi Hayashi	59556.00006	4989	
32294 75	590 06/14/2005		EXAM	EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			ELVE, MARIA ALEXANDRA		
14TH FLOOR 8000 TOWERS CRESCENT		ART UNIT	PAPER NUMBER		
TYSONS CORNER, VA 22182			1725		
•			DATE MAILED: 06/14/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		V				
	Application No.	Applicant(s)				
	10/622,490	HAYASHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	M. Alexandra Elve	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 N	<u> 1arch 2005</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 5 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>21 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/940,604. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipated by Morey et al. (USPN 5,007,705).

Morey et al. discloses an optical fiber having a Bragg diffraction grating contained within the optical element. This yields a light filtering and index variations to the light passing through the element.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipated by Vengsarkar (USPN 5,430,817).

Vengsarkar discloses an optical fiber having a spectral shaping device contained within the fiber. This shifts light into a variety of wavelengths.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipated by Welch et al. (USPN 6,021,106).

Welch et al. discloses a diffractive optical element. The optical element contains a diffraction pattern having multi-level diffractive components to alter light.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipated by Borrelli et al. (USPN 6,284,685).

Borrelli et al. discloses an optical device having dopants within the glass yielding a change in the refraction and hence altering light patterns.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipated by Bendett et al. (USPN 6,636,678).

Bendett et al. discloses an optical structure wherein the glass substrate is doped with rare earth elements. These elements cause diffraction to occur within the element.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 5 is rejected under 35 U.S.C. 102(e) as being anticipated by Sanders (USPN 6,456,771).

Sanders discloses an optical fiber having an embedded Bragg grating. This yields a light filtering and index variations to the light passing through the element.

Claim 5 is rejected under 35 U.S.C. 102(e) as being anticipated by Goto (USPN 6,836,365).

Goto discloses a diffractive optical element having a plurality of partial optical elements. These partial optical elements convert light to partial beam, that is, the light is diffracted.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 12, 2005.

M. Alexandra Elve

Primary Examiner 1725